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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/564,868	01/17/2006	Tobias Dassler	WAS0758PUSA	2145
22045 BROOKS KUS	7590 08/06/2007 SHMAN P.C.		EXAMINER	
1000 TOWN CENTER			SINGH, ANOOP KUMAR	
TWENTY-SECOND FLOOR SOUTHFIELD, MI 48075			ART UNIT	PAPER NUMBER
		•	1632	
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			MAIL DATE	DELIVERY MODE
•			08/06/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•	Application No.	Applicant(s)					
	10/564,868	DASSLER, TOBIAS					
Office Action Summary	Examiner	Art Unit					
-	Anoop Singh	1632					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on	_· _•						
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.						
. —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims							
4) Claim(s) 11-24 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
	6) Claim(s) is/are rejected.						
7) ☐ Claim(s) is/are objected to. 8) ☑ Claim(s) <u>11-24</u> are subject to restriction and/or	alastian requirement	•					
o) Claim(s) 11-24 are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
		·					
•							
Attachment(s)							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal F 6) Other:						

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DETAILED ACTION

Applicant's amendments to the claims and specification filed on January 17, 2007 have been received and entered. Applicants have canceled claim 1-10 and newly added claims 11-24.

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claims 11-19, drawn to a cell that secretes enantiomerically pure R- α - lipoic acid into a culture medium, a microorganism comprising said cell culture medium.

Group II, claims 20-24, drawn to a method forfor preparing cells and a method for fermentatively preparing enantiomerically pure $R-\alpha$ - lipoic acid comprising culturing a lipoic acid-secreting cell into a culture medium, the lipoic acid- secreting cell secreting enantiomerically pure $R-\alpha$ - lipoic acid into the culture medium; separating the enantiomerically pure $R-\alpha$ --lipoic acid from the culture medium.

The inventions listed as Groups I-II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Prior to instant invention Jordan et al (Journal of Bacteriology, 2003, 185, 15-82-1589) teach over expression of lip B. In addition, it is noted that Jordan et al disclose lipoate protein ligase (LpIA) could also be utilize as acyl carrier protein substrates in addition to its normal substrates lipoic acid plus ATP. While Jordan did not explicitly disclosed the expression

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of a gene encoding lipoylatable polypeptide, however, Morris et al (Journal of Bacteriology, 1995, 177, 1-10, IDS) provided guidance with respect to over expression of lipoylatable polypeptide and its role in lipoic acid metabolism. Given the state of art it would be prima facie obvious for one of ordinary skill the art to use different construct disclosed in prior art to overexpresses LipB and gene encoding lipoylatable polypeptide in *Escherichia coli* to study lipoic acid metabolism with a reasonable expectation of success. Therefore, the instant technical feature does not contribute over prior art.

In addition, the inventions are distinct fro each from other because of the following reasons: Inventions I-II are product by process claims. In the instant case cells, plasmid and microorganism comprising combination of gene are independent of method making a transformed cell or method of preparing lipoic acid, since plasmid, cell and microorganism could be used to study lipoic acid metabolism, while limitation of invention II such separating the enantiomerically pure R-t~-lipoic acid from the culture medium is not required by invention of group I. Each of these involves distinct method steps and composition and therefore, searching for distinct method steps and composition will not be coextensive and will require separate and independent searches in the patent and non-patent literature.

Each invention is directed to distinct goal, which comprises the cell, plasmids, method of making cell and preparing enantiomerically pure $R-\alpha$ - lipoic acid in order to achieve its respective and intended objective. Thus, it follows from the preceding analysis that the claimed inventions listed as Groups I-II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the reasons set forth above.

Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

The examiner has required restriction between product and process claims.

Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise

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require all the limitations of the allowable product claim will be considered for rejoinder.

<u>All</u> claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions

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unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anoop Singh whose telephone number is (571) 272-3306. The examiner can normally be reached on 9:00AM-5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Paras can be reached on (571) 272- 4517. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Anoop Singh, Ph.D. AU 1632

/Anne-Marie Falk/ Anne-Marie Falk, Ph.D. Primary Examiner, Art Unit 1632